```
                    ┌──────────┐
                    │  Start   │
                    └────┬─────┘
                         │
                         ▼
              ┌────────────────────┐
              │ Identify test      │─── 2
              │ initiator          │
              └─────────┬──────────┘
                        │
                        ▼
            ┌─────────────────────────┐
            │ Select drivers matching │─── 4
            │ test initiator          │
            └────────────┬────────────┘
                         │
                         ▼
          ┌───────────────────────────────┐
          │ Determine driver application  │─── 6
          │ order                          │
          └───────────────┬───────────────┘
                          │
                          ▼
            ┌───────────────────────────┐
            │ Load drivers into         │─── 8
            │ memory                     │
            └──────────────┬────────────┘
                           │
         N                 ▼
         ┌────┬───────────────────────────┐
         │    │ Received file             │─── 10
         └────│ scan request              │
              └──────────────┬────────────┘
                             │ Y
                             ▼
            N        ┌──────────────┐
      ◄──────────────│   Scan?      │─── 12
                     └──────┬───────┘
                            │ Y
                            ▼
            ┌───────────────────────────┐
            │ Apply selected drivers    │─── 16
            │ in determined order        │
            └──────────────┬────────────┘
                           │
             Y             ▼              N
      ◄────────────┌──────────────┐─────────────┐
                   │    Pass?     │─── 18        │
                   └──────────────┘              │
   ┌──────────────┐                    ┌──────────────┐
   │ Return pass  │─── 14               │ Return fail  │─── 20
   │ result        │                    │ result        │
   └───────┬──────┘                    └───────┬──────┘
           │                                    │
           └──────────────┐      ┌──────────────┘
                          ▼      ▼
                      ┌──────────┐
                      │   End    │
                      └──────────┘
```

Fig. 1

File type to be scanned	Embedded HTML	Macro	Driver Type		
			General	Trojans/ worms	Grunt
Executable Files			✓	✓	✓
Documents	✓	✓	✓	✓	✓
EMails Attachment		✓	✓	✓	✓
EMail Bodies	✓				

Fig. 2

Priority Ordering

Newly released

Highly infectious

Highly damaging

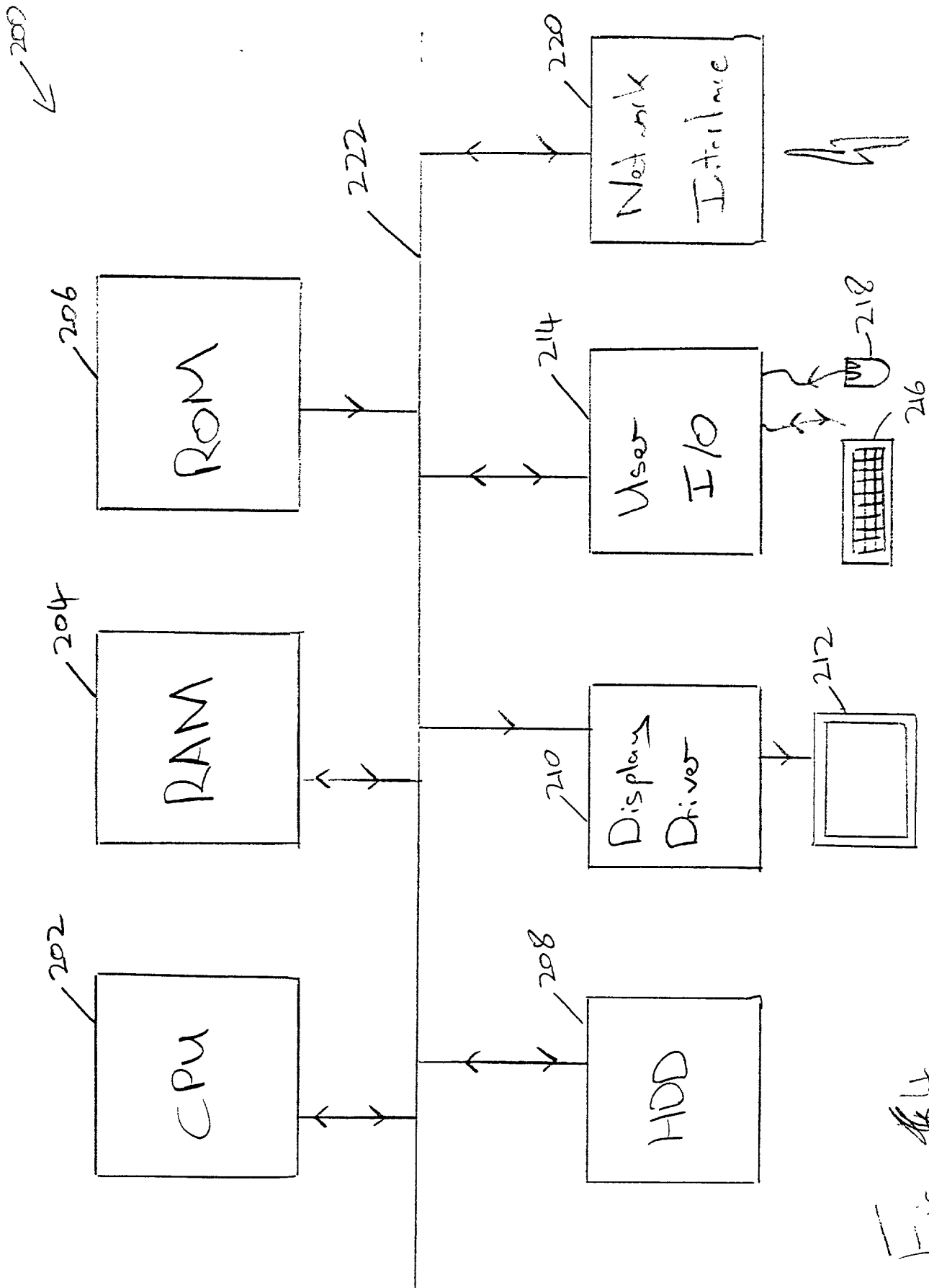Wide spread

Quick to scan

General

Rare

Slow to scan

Fig. 3

FIG. 4

200

202 CPU

204 RAM

206 ROM

222

220 Network Interface

214 User I/O

216

218

210 Display Driver

212

208 HDD